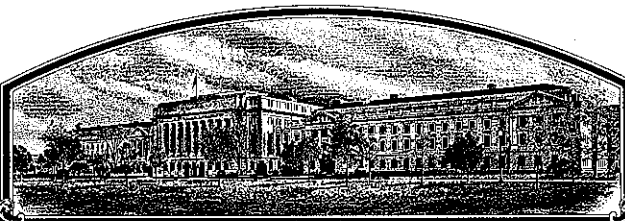


No.

9100143



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Northrup King Co.**

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS MUCH OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS AS DETERMINED BY THE OWNER OF THE RIGHTS. (34 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Coker 9907'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 29th day of October in the year of our Lord one thousand nine hundred and ninety-three.

Attest:

*Kenneth Evans*  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

*Mike Esy*  
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

|   |  |  |  |
|---|--|--|--|
| 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)<br><b>Northrup King Company</b>   |  | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.<br><b>C 86-22</b> | 3. VARIETY NAME<br><b>Coker 9907</b>   |
| 4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)<br><b>P. O. Box 959<br/>Minneapolis, MN 55440</b>                           |  | 5. PHONE (include area code)<br><b>612-593-7333</b>            | <b>FOR OFFICIAL USE ONLY</b><br>PVPO NUMBER<br><b>9100143</b><br>Filing and Examination Fee:<br><b>\$2150.-</b><br>Date<br><b>Mar. 18, 1991</b><br>Certificate Fee:<br><b>\$250.-</b><br>Date<br><b>Oct. 6, 1993</b> |
| 6. GENUS AND SPECIES NAME<br><b>Triticum aestivum</b>   | 7. FAMILY NAME (Botanical)<br><b>Gramineae</b> |  |  |
| 8. CROP KIND NAME (Common Name)<br><b>Soft red winter wheat</b>   | 9. DATE OF DETERMINATION<br><b>1985, May</b>   |  |  |
| 10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.)<br><b>Corporation</b> |  |  |  |
| 11. IF INCORPORATED, GIVE STATE OF INCORPORATION<br><b>Delaware</b>   |  | 12. DATE OF INCORPORATION<br><b>1976</b>                       |  |

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

~~Warren D. Springer~~ ~~Robert W. Rome~~ **John Thorne** **AAA 2 Nov 1993**  
**Northrup King Co.**  
**P. O. Box 959**  
**Minneapolis, MN 55440**  
**WASHINGTON IOWA 52353**  
**319 653 2181**  
**612-593-7285 4305**

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a. ☒ Exhibit A, Origin and Breeding History of the Variety.  
b. ☒ Exhibit B, Novelty Statement.  
c. ☒ Exhibit C, Objective Description of Variety.  
d. ☐ Exhibit D, Additional Description of Variety.  
e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.  
f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office \_\_\_\_\_  
g. ☒ Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act.)

☒ YES (If "YES," answer items 16 and 17 below) ☐ NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☒ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

☐ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?

☐ YES (If "YES," through ☐ Plant Variety Protection Act ☐ Patent Act. Give date: \_\_\_\_\_)  
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?

☒ YES (If "YES," give names of countries and dates)  
☐ NO

**U.S.A., fall of 1990**

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

|   |   |                              |
|---|---|------------------------------|
| SIGNATURE OF APPLICANT [Owner(s)]<br><b>Warren Springer</b> | CAPACITY OR TITLE<br><b>Manager,<br/>Regulatory Affairs</b> | DATE<br><b>11 March 1991</b> |
| SIGNATURE OF APPLICANT [Owner(s)]                           | CAPACITY OR TITLE   | DATE                         |

## EXHIBIT A

## Origin and Breeding History

Amended December 1992

Coker 9907 was derived from a cross of Coker 762/4/Abe/3/Coker 68-15\*3//Chancellor\*8/CI13836. The cross was made in the spring of 1980 at the Coker research facility in Hartsville, SC. The breeding history follows:

| SEASON      | GENERATION | ACTIVITY   |
|-------------|------------|--|
| Spring 1980 | Cross made | Cross identified as x872   |
| Summer 1980 | F1         | Grown in greenhouse & seed bulked                                |
| 1980-81     | F2         | Seed bulked  |
| 1981-82     | F3         | Grown as spaced plants, selected plants bulked (LR and PM)       |
| 1982-83     | F4         | Heads selected from spaced plants, plants selected for LR and PM |
| 1983-84     | F5         | Head row #14795 selected for LR and PM resistance and uniformity |
| 1984-85     | F6         | Tested as line #85 C130  |
| 1985-86     | F7         | Advanced tested as C 86-22                                       |
| 1986-87     | F8         | Advanced testing continued                                       |
| 1987-88     | F9         | Elite testing and increase                                       |
| 1988-89     | F10        | Elite testing and small increase by Production Dept.             |
| 1989-90     | F11        | Elite testing and large increase by Production Dept.             |
| 1990-91     | F12        | Production of certified seed by TGN growers                      |

LR=Leaf Rust

PM=Powdery Mildew

Purpose of testing is to evaluate yield, agronomic traits, and disease reactions; uniformity and consistency are critical for performance over locations and years.

Coker 9907 has been sexually reproduced for 8 generations since it was selected as a head row; it has exhibited uniformity and stability through each generation.

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EXHIBIT B

Novelty Statement

Amended December 1992

Coker 9907 is most similiar to Coker 9766. The two varieties can be distinguished by five traits. Coker 9907 has a light brown phenol reaction whereas Coker 9766 has a black brown. Coker 9907 is resistant to stem rust and is susceptible to stripe rust, soil borne virus complex found in the Mid-South, and to hessian fly. Coker 9766 is susceptible to stem rust and is resistant to stripe rust and biotype E of hessian fly and is moderately resistant to soil borne virus complex.

| <u>TRAIT</u>      | <u>COKER 9907</u> | <u>COKER 9766</u>       |
|-------------------|-------------------|-------------------------|
| Phenol reaction   | light brown       | black brown             |
| Stripe rust*      | susceptible       | resistant               |
| Stem rust*        | resistant         | susceptible             |
| Soil borne virus* | susceptible       | moderately<br>resistant |
| Hessian Fly "E"   | susceptible       | resistant               |

\*Races present in the Mid-South 1987-89.

U. S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION  
BELTSVILLE, MARYLAND 20785

EXHIBIT C  
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY  
WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S)

Northrup King Co.

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P.O. Box 959  
Minneapolis, MN 55440

FOR OFFICIAL USE ONLY

PVPO NUMBER

9100143

VARIETY NAME OR TEMPORARY DESIGNATION

Coker 9907

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g.,     or   ) when number is either 99 or less or 9 or less.

## 1. KIND:

1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

## 2. TYPE:

1 = SPRING 2 = WINTER 3 = OTHER (Specify)   1 = SOFT 3 = OTHER (Specify)  
2 = HARD

1 = WHITE 2 = RED 3 = OTHER (Specify)

## 3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:

FIRST FLOWERING

LAST FLOWERING

## 4. MATURITY (50% Flowering):

NO. OF DAYS EARLIER THAN   1 = ARTHUR 2 = SCOUT 3 = CHRIS 7 = Caldwell

NO. OF DAYS LATER THAN   4 = LEMHI 5 = NUGAINES 6 = LEEDS 8 = Coker 916

## 5. PLANT HEIGHT (From soil level to top of head):

CM. HIGH

CM. TALLER THAN

CM. SHORTER THAN   1 = ARTHUR 2 = SCOUT 3 = CHRIS 7 = Caldwell  
4 = LEMHI 5 = NUGAINES 6 = LEEDS 8 = Coker 916

## 6. PLANT COLOR AT BOOTING (See reverse):

1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

## 7. ANTHUR COLOR:

1 = YELLOW 2 = PURPLE

## 8. STEM:

Anthocyanin: 1 = ABSENT 2 = PRESENT

Waxy bloom: 1 = ABSENT 2 = PRESENT

Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT

Internodes: 1 = HOLLOW 2 = SOLID

NO. OF NODES (Originating from node above ground)

CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

## 9. AURICLES:

Anthocyanin: 1 = ABSENT 2 = PRESENT

Hairiness: 1 = ABSENT 2 = PRESENT

## 10. LEAF:

Flag leaf at booting stage: 1 = ERECT 2 = RECURVED  
3 = OTHER (Specify):

Flag leaf: 1 = NOT TWISTED 2 = TWISTED

Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT

Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT

MM. LEAF WIDTH (First leaf below flag leaf)

CM. LEAF LENGTH (First leaf below flag leaf):

## 11. HEAD:

☐ 3 Density: 1 = LAX 2 = DENSE 3 = Mid-Dense

☐ 1 Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE  
4 = OTHER (Specify) \_\_\_\_\_

☐ 2 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

☐ 7 Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED  
5 = BROWN 6 = BLACK 7 = OTHER (Specify): light tan
☐ 0 ☐ 7 CM. LENGTH

☐ 1 ☐ 2 MM. WIDTH

## 12. GLUMES AT MATURITY:

☐ 2 Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.)  
3 = LONG (CA. 9 mm.)

☐ 1 Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.)  
3 = WIDE (CA. 4 mm.)

☐ 1-2 Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED  
4 = SQUARE 5 = ELEVATED 6 = APICULATE

☐ 3 Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

## 13. COLEOPTILE COLOR:

☐ 3 1 = WHITE 2 = RED 3 = PURPLE

## 14. SEEDLING ANTHOCYANIN:

☐ 2 1 = ABSENT 2 = PRESENT

## 15. JUVENILE PLANT GROWTH HABIT:

☐ 2 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

## 16. SEED:

☐ 3 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL  
to ovate

☐ 1 Check: 1 = ROUNDED 2 = ANGULAR

☐ 2 Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

☐ 1 Brush: 1 = NOT COLLARED 2 = COLLARED

☐ 3 Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN  
4 = BROWN 5 = BLACK

☐ 5 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify) Medium brown
☐ 0 ☐ 6 MM. LENGTH ☐ 0 ☐ 3 MM. WIDTH

☐ 3 ☐ 3 GM. PER 1000 SEEDS

## 17. SEED CREASE:

☐ 2 Width: 1 = 60% OR LESS OF KERNEL 'WINOKA'  
2 = 80% OR LESS OF KERNEL 'CHRIS'  
3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

☐ 2 Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT'  
2 = 35% OR LESS OF KERNEL 'CHRIS'  
3 = 50% OR LESS OF KERNEL 'LEMHI'

## 18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☐ 2 STEM RUST (Races) ☐ 2 LEAF RUST (Races) ☐ 1 STRIPE RUST (Races) ☐ 0 LOOSE SMUT

☐ 2 POWDERY MILDEW ☐ 0 BUNT ☐ 2 OTHER (Specify) Septoria nodorum

## 19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

☐ 0 SAWFLY ☐ 0 APHID (Bydv.) ☐ 0 GREEN BUG ☐ 0 CEREAL LEAF BEETLE

☐ OTHER (Specify) \_\_\_\_\_ HESSIAN FLY  
RACES: ☐ GP ☐ A ☐ B ☐ C  
☐ D ☐ 1 E ☐ F ☐ G

## 20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

| CHARACTER       | NAME OF VARIETY | CHARACTER             | NAME OF VARIETY |
|-----------------|-----------------|-----------------------|-----------------|
| Plant tillering | Coker 9766      | Seed size             | Coker 9323      |
| Leaf size       | Coker 9766      | Seed shape            | Coker 9227      |
| Leaf color      | Coker 9766      | Coleoptile elongation | Coker 9323      |
| Leaf carriage   | Coker 9766      | Seedling pigmentation | Coker 9766      |

## INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form.

- (a) L.W. Briggie and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

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## Milling and Baking Quality, Coker 9907

| PARAMETER          | TEST        |            |            |
|--------------------|-------------|------------|------------|
|                    | 1988<br>UEN | 1991<br>CE | 1990<br>CE |
| <b>MILLING</b>     |             |            |            |
| Test wt lb/bu      | 60.7        | 58.7       | 59.3       |
| Break flour yield  | 29.3        | --         | --         |
| St.gr. flour yield | 77.3        | 76.8       | 75.3       |
| Friability         | 28.6        | --         | --         |
| E.S.I.             | 9.8         | --         | --         |
| Softness equiv.    | --          | 60.9       | 56.4       |
| Flour Ash          | 0.41        | --         | --         |
| Millability        | 110.6       | --         | --         |
| Score              | 107.8       | 100.3      | 94.8       |
| <b>BAKING</b>      |             |            |            |
| Flour protein      | 9.41        | 8.90       | 9.73       |
| Micro AWRC         | 49.1        | 55.2       | 54.7       |
| Cookie diameter    | 18.5        | 17.8       | 17.5       |
| Top grain          | 6           | 6          | 1          |
| Score              | 111.8       | 109.2      | 102.0      |
| Standard           | Knox 62     | Fla 302    | Fla 302    |

UEN: Uniform Eastern Soft Red Winter Wheat Nursery

CE: Northrup King's Commercial Elite Test

## EXHIBIT E

## Statement of the Basis of Applicant's Ownership

Wheat variety Coker 9907 was developed by the Northrup King Co. cereals breeding staff from germplasm sources cited in Exhibit A of this application. Northrup King Co. believes that the variety is novel as defined in the Plant Variety Protection Act and, therefore, that Northrup King Co. is the sole owner of the variety.